

# SEQUENCE LISTING

<110> Shimkets, Richard A.  
Leach, Martin D.

<120> cSingle Nucleotide Polymorphisms for Known Genes

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51

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51

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51

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51

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51

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51

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CTACCGCCAA CTATGACTTT GTCCTGAAGA AGCGGACCTT CACCAAGGGA G

51

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51

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ACATCCAGGT GGTGTTGAC GCCGTTACCG ACATCATCAT TGCCAACAAC C

51

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51

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51

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CGACGAGGTG CTACGCGAGG GCGAGTTGGA GAAGCGCAGC GACAGCCTCT T

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TCATCCTGAG TTCTAAGAAG CTCCTCCTCA GTGACTCTGG CTTCTATCTC T

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<223> Nucleotide deleted between bases 25 and 26

<221> misc\_feature  
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51

<210> 214  
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51

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TAGCAGCCAG GTGACATGGC CAGGCTACCT TCCTGTACAG GCACTGTGGG C

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<210> 218  
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51

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CAGTGCATCT GGGAAGATTT CTACCCGACC AACAGTTCCT TCAGCTTCCA T

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51

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51

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51

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GAGAGACCAT TTA CTTACAT CAGTTTGGTT TATAGACATT TGAATCATAT C

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AGTTTCATTA TACTTTTCTC TCCACGTTTT GTCTATGTTG AAAATTTTCT G

51

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ACAAGACAGA AGCTGAAGTG CATCCCAAAG GTGCTCAGAG AGCCGGCCCG C

51

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TGGCGAGTCC AGGGTCACCC ACATAACCAT GCACCACGGG TGCTATGCCG C

51

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TACCATGCAC CACGGGTGCT ATGCCACTTC TTACAGGACC TTTTtagccc T

51

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CCTGGAGGCA ACTGGGTAGG GTGCACAACG GCATGCTTTG GCTGGAACAC G

51

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51

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51

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47

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51

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51

<210> 339

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51

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51

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51

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51

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51

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51

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51

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51

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CGGGAGCTCT GCCAGCTTTG GCGAACGAGG GTGCTTGCTT CGTGCCCCTT G

51

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CCAACCCTAG GGAATCAACA CTTAATATAA TTCGCCACTT CTCCTCTTTC T

51

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51

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ATTGTAGTAC AAATGACTCA CTGCTATAAA GCAGTTTTTC TACTTTTAAA G 51

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51

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51

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51

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<210> 647

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1 5 10

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Lys	Cys	Glu	Cys	Ser	Arg	Ala	Tyr	Gln	Met	Asp	Leu	Ala	Thr
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Val Pro Leu Glu Thr Pro Arg Val His Ser Arg Ala Pro Ser  
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Trp Gly Lys Glu Pro Lys Leu Glu Ser Ala Trp Met Asn Gly  
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<210> 662  
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<400> 743

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 Arg Ser Ala Arg Gly Ser Arg Gly Gly Thr Arg Gly Trp Leu  
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 Asn Phe Thr Ser Lys Tyr His Met Lys Val Leu Tyr Leu Ser  
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 Ile Gln Tyr Thr Tyr Leu Gly Gly His Val Cys Leu Ser Ala  
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Cys Leu Thr Glu Arg Gln Ser Lys Ile Trp Phe Gln Asn Arg  
1 5 10

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Pro Tyr Arg Ile Ala His Ala Val Ile Lys Ala His Ala Arg  
1 5 10

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1 5 10

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<400> 757  
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1 5 10

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<400> 758  
Phe Ser Tyr Ser Ala Ser Ser Thr  
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<400> 759  
Pro Val Ser Ser Ala Asn Val Met Ser Gly Ile Ser Ser Val  
1 5 10

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Trp Glu Arg Phe Val His Arg Glu Asn Gln His Leu Val Ser  
1 5 10

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<400> 761  
Gly Thr Glu Asp Leu Tyr Gly Tyr Ile Asp Lys Tyr Asn Ile  
1 5 10

<210> 762  
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Lys Gln Leu Tyr Gln Thr Phe Thr Asp Tyr Asp Ile Arg Phe  
1 5 10

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Gly Ser Leu His Pro His Pro Pro Tyr His Ile Arg Val Ala  
1 5 10

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<400> 764  
Leu Tyr Ser Arg Leu Gly Gly Gln Pro Val Tyr Leu Pro Thr  
1 5 10

<210> 765  
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<400> 765  
Ala Pro Pro Gly Ala Tyr His Gly Ala Pro Gly Ala Tyr Pro  
1 5 10

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<400> 766  
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<210> 767  
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<400> 768

Val Gly Phe Leu Val Gly Ile Val Leu Ile Ile Met Gly Thr  
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<210> 769

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<400> 769

Gln Ser Val Val Ser Cys Ala End Ala Pro Gln Ser Gly Leu  
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<210> 770

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<222> (7)...(0)

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<400> 770

Pro Gly Pro Thr Val Arg Ala Gly Glu Asn Val Thr Leu Ser  
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<210> 771

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<400> 771

Cys Ser Gly Val Trp Gly Ala Asp Thr Glu Glu Arg Leu Val  
1 5 10

<210> 772

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<400> 772  
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<210> 773  
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<210> 774  
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<400> 774  
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1 5 10

<210> 775  
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1 5 10

<210> 776  
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<400> 776  
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1 5 10

<210> 777  
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<212> PRT  
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<400> 777  
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<210> 778  
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<400> 778  
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<210> 779  
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<400> 779  
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<210> 780  
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<221> VARIANT  
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<400> 780  
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1 5 10

<210> 781  
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<400> 781  
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1 5 10

<210> 782  
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<400> 782  
Gln Pro Gln Ala Arg Gln Glu Glu Gln Val Arg Val Val Arg  
1 5 10

<210> 783  
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<210> 784  
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<210> 785  
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<210> 786  
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1 5 10

<210> 787  
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1 5 10

<210> 788  
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<400> 788

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<210> 789

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<210> 797  
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Leu Arg Ile Gln Cys Leu Cys Arg Lys Gln Ser Ser Lys His  
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<210> 799  
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<400> 800

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1 5 10

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<400> 811  
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1 5 10

<210> 812  
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<400> 812  
Phe Gly Thr Leu His Pro Ser Phe Tyr Gly Ser Ser Arg Glu  
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<210> 813  
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<220>  
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<400> 813  
Glu Gly Asp Phe Tyr Tyr Met Gly Gly Phe Phe Gly Gly Ser  
1 5 10

<210> 814  
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<212> PRT  
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<220>  
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<222> (7)...(0)  
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<400> 814  
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1 5 10

<210> 815  
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<220>  
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<222> (7)...(0)  
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<400> 815  
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1 5 10

<210> 816  
<211> 14  
<212> PRT  
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<220>  
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<223> cSNP translation

<400> 816  
Lys Asp Phe His Lys Asp Met Leu Lys Pro Ser Pro Gly Lys  
1 5 10

<210> 817

<211> 14  
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<220>  
<221> VARIANT  
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<223> cSNP translation

<400> 817  
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1 5 10

<210> 818  
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<220>  
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<400> 818  
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1 5 10

<210> 819  
<211> 14  
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<220>  
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<223> cSNP translation

<400> 819  
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<210> 820  
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<220>  
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<223> cSNP translation

<400> 820  
Ser Pro Gln Ser Ser Ala Arg Gly Lys Pro Ala Met Ser Tyr  
1 5 10

<210> 821  
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<220>  
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<400> 821  
Leu Glu Asp Leu Ala Gly Trp Lys Glu Leu Phe Gln Thr Pro  
1 5 10

<210> 822  
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<220>  
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<400> 822  
Val Gln Asp Ile Leu Arg Leu Glu Met Pro Ala Ser Lys Ile  
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<210> 823  
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<400> 823  
Ser Glu Arg Glu Thr Glu His Thr Pro Ala Leu Ile Met Val  
1 5 10

<210> 824  
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<212> PRT  
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<220>  
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<400> 824  
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<210> 825  
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<400> 825

Gln Glu Val His Gly Pro Tyr Pro Asp Ser Ser Phe Leu Thr

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<210> 826

<211> 14

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<222> (7)...(0)

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<400> 826

Gln Glu Val His Gly Pro Ile Pro Asp Ser Ser Phe Leu Thr

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<210> 827

<211> 14

<212> PRT

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<400> 827

Glu Leu Cys His Glu Lys Gly Ile Leu Glu Lys Tyr Gly His

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<210> 828

<211> 14

<212> PRT

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<400> 828

Asn Asn Asn Leu Arg His Thr Asp Glu Met Phe Trp Asn His

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<210> 829

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<400> 829  
Gly Met Ala Ser Ser Cys Ser Val Gln Val Lys Leu Glu Leu  
1 5 10

<210> 830  
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<220>  
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<400> 830  
Pro Ser Ile Phe Ile Tyr Arg His Thr Ala Ser Gly Lys Thr  
1 5 10

<210> 831  
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<400> 831  
Pro Pro Pro Pro Pro Gly Ala Pro Gly Gly Ser Gln Asp Thr  
1 5 10

<210> 832  
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<220>  
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<400> 832  
Arg Ala Ala Leu Glu Arg Gly Lys Ala Ile Glu Lys Asn Leu  
1 5 10

<210> 833  
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<222> (7)...(0)  
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<400> 833  
Thr Gly Gly Leu Leu Arg Leu Ala Leu Met Leu Gln Leu  
1 5 10

<210> 834  
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<400> 834  
Asp Ser Ser Ser Ser Asn Gly Lys Ala Lys Asn Pro Pro Gly  
1 5 10

<210> 835  
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<220>  
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<400> 835  
Leu Glu Pro Gln Trp Tyr Ser Val Leu Glu Lys Asp Ser Val  
1 5 10

<210> 836  
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<400> 836  
Gln Lys His Ser Ser Gly Xaa Ser Asn Thr Ser Thr Ala Asn  
1 5 10

<210> 837  
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<400> 837  
Trp Gly Thr Glu Asp Asp Ala Thr Gln Ser Tyr His Asn Gly  
1 5 10

<210> 838  
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<220>  
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<400> 838  
Arg Cys Met Gly Thr Val Asn Leu Asn Gln Ala Arg Gly Ser  
1 5 10

<210> 839  
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<400> 839  
Phe Ser Lys Leu Leu Gly Pro Leu Ser Ala Lys Lys Tyr Leu  
1 5 10

<210> 840  
<211> 14  
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<400> 840  
Thr Ser Lys Ile Leu Phe Phe Ser Gln Gly Ser Glu Ile Ala  
1 5 10

<210> 841  
<211> 14  
<212> PRT  
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<400> 841  
Tyr Val Gln Pro Pro Glu Val Ile Gly Pro Met Arg Pro Glu  
1 5 10

<210> 842  
<211> 14  
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<400> 842  
Gly Pro Asp Gly Gln Glu Val Asp Pro Pro Asn Pro Glu Glu  
1 5 10

<210> 843  
<211> 14  
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<220>  
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<400> 843  
Lys Gly Gly Glu Gln Lys Arg His Glu Lys Ile Ser Ala Ser  
1 5 10

<210> 844  
<211> 14  
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<220>  
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<400> 844  
Ala Pro Gln Gln Glu Gly Glu Ala Ser Lys Glu Lys Glu Glu  
1 5 10

<210> 845  
<211> 14  
<212> PRT  
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<220>  
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<223> cSNP translation

<400> 845

Lys Val Val Gln Ser Pro Gln Ser Leu Val Val His Glu Gly  
1 5 10

<210> 846

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 846

Leu Asn Cys Ser Tyr Glu Met Thr Asn Phe Arg Ser Leu Leu  
1 5 10

<210> 847

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (7)...(0)

<223> cSNP translation

<400> 847

Thr Asn Phe Arg Ser Leu Gln Trp Tyr Lys Gln Glu Lys Lys  
1 5 10

<210> 848

<211> 14

<212> PRT

<213> Homo sapiens

<220>

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<222> (7)...(0)

<223> cSNP translation

<400> 848

Leu Asp Lys Lys Glu Leu Ser Ser Ile Leu Asn Ile Thr Ala  
1 5 10

<210> 849

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (8)...(0)

<223> cSNP translation

<400> 849  
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1 5 10

<210> 850  
<211> 14  
<212> PRT  
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<220>  
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<400> 850  
Phe Phe Lys Arg Asn Arg His Thr Pro Gly Arg Arg End End  
1 5 10

<210> 851  
<211> 9  
<212> PRT  
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<220>  
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<400> 851  
Thr Ile Gln Pro Pro Arg Glu End Leu  
1 5

<210> 852  
<211> 14  
<212> PRT  
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<220>  
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<222> (8)...(0)  
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<400> 852  
Gly Ile Val Gly Gln Lys Gly Arg Pro Trp Leu Pro Arg Thr  
1 5 10

<210> 853  
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<212> PRT  
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<220>  
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<400> 853  
Gly Gly Lys Met Gly Gly Arg Lys Arg Leu Gln Lys End Ser  
1 5 10

<210> 854  
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<212> PRT  
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<220>  
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<400> 854  
Tyr Ser Ser Tyr Gly Gln Ser Leu Phe Thr Val Leu Trp Trp  
1 5 10

<210> 855  
<211> 14  
<212> PRT  
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<400> 855  
Glu Gln Leu Arg Arg Gln Leu Asp Pro Leu Arg Thr Ala His  
1 5 10

<210> 856  
<211> 14  
<212> PRT  
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<220>  
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<400> 856  
Ser Thr Glu Cys Trp Met Asn Ala Ala Cys Leu Ala Pro Gly  
1 5 10

<210> 857  
<211> 14  
<212> PRT  
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<220>  
<221> VARIANT  
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<400> 857

His Gly Val Leu Asp Ala Cys Leu Ile His Pro Gly Pro Ala  
1 5 10

<210> 858  
<211> 14  
<212> PRT  
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<220>  
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<400> 858  
Arg Asp Lys Gly Ser Gly Arg Ala Cys Gly Leu Glu Gly Gln  
1 5 10

<210> 859  
<211> 14  
<212> PRT  
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<220>  
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<400> 859  
Thr Asp Phe Phe Phe Phe End Thr Lys Lys Ala Leu End Leu  
1 5 10

<210> 860  
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<212> PRT  
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<400> 860  
Gly Ala Gly Ser Val Ser Asp His His Ser Ile Thr Lys End  
1 5 10

<210> 861  
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<212> PRT  
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<220>  
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<400> 861  
Arg Tyr Leu Asp Trp Ile Leu Trp Ala His Gln Arg

1 5 10

<210> 862  
<211> 14  
<212> PRT  
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<220>  
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<400> 862  
Ala Glu Leu Arg Leu Leu Arg Ala Gln Val Lys Ser Gly Ala  
1 5 10

<210> 863  
<211> 14  
<212> PRT  
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<220>  
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<400> 863  
Ala Glu Leu Arg Leu Leu Arg Ala Gln Val Lys Ser Gly Ala  
1 5 10

<210> 864  
<211> 14  
<212> PRT  
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<220>  
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<400> 864  
Pro His Cys Arg Pro Gly Ala Trp Pro Ala Thr Glu Arg Gly  
1 5 10

<210> 865  
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<212> PRT  
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<220>  
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<400> 865  
Ile His Phe Glu Asp Tyr Gly Val Leu Gly His His Gln Leu  
1 5 10

<210> 866  
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<212> PRT  
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<220>  
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<400> 866  
Asn Phe Ile Leu Ala Cys Pro Arg End Arg Asn Gly Gly Ile  
1 5 10

<210> 867  
<211> 14  
<212> PRT  
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<220>  
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<400> 867  
Arg Glu Lys Leu Arg Asn Phe His Phe Ser Met Ser Arg End  
1 5 10

<210> 868  
<211> 14  
<212> PRT  
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<220>  
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<222> (8)...(0)  
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<400> 868  
Leu Leu Leu Leu Leu Arg Arg Pro Ala Gln Pro Gln Leu  
1 5 10

<210> 869  
<211> 14  
<212> PRT  
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<220>  
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<400> 869  
Lys Arg Val Ala Gly Gly Leu Arg End Ser Ser Ser Ala Trp  
1 5 10

<210> 870  
<211> 14  
<212> PRT  
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<220>  
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<400> 870  
Gly Lys Arg Val Ala Gly Gly Leu Arg End Ser Ser Ser Ala  
1 5 10

<210> 871  
<211> 14  
<212> PRT  
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<220>  
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<400> 871  
Ser Ser Gly Arg Pro Thr Gly Tyr Cys Leu Gln Leu Gln Gln  
1 5 10

<210> 872  
<211> 14  
<212> PRT  
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<220>  
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<400> 872  
Gln Arg Ser Ile Ser Ala Asp End End Pro Ala Arg Val Ile  
1 5 10

<210> 873  
<211> 14  
<212> PRT  
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<220>  
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<400> 873  
Arg Ala Pro Val Ile Leu Gly Pro Pro Thr Thr Cys Ser Ser  
1 5 10

<210> 874

<211> 14  
<212> PRT  
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<220>  
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<400> 874  
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1 5 10

<210> 875  
<211> 14  
<212> PRT  
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<220>  
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<222> (8)...(0)  
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<400> 875  
Leu Met Gly Leu Ser Gly Phe Leu Thr Gly Pro Pro Pro Pro  
1 5 10

<210> 876  
<211> 14  
<212> PRT  
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<220>  
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<400> 876  
Pro Arg Thr Pro Ala Glu Pro Pro Pro Leu Gly Arg Gln Ala  
1 5 10

<210> 877  
<211> 14  
<212> PRT  
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<220>  
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<400> 877  
Gly Thr Gly Asp Trp Arg Glu Pro Gly Ala Ala Ser Glu Arg  
1 5 10

<210> 878  
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<212> PRT  
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<220>  
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<400> 878  
Gln Gly Arg Gln Ser Lys Gly Leu Arg Arg Arg Thr Trp Pro  
1 5 10

<210> 879  
<211> 14  
<212> PRT  
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<220>  
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<223> cSNP translation

<400> 879  
Lys Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala  
1 5 10

<210> 880  
<211> 14  
<212> PRT  
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<220>  
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<223> cSNP translation

<400> 880  
Cys Lys Cys Ser Arg Lys Asp Pro Arg Ser Ala Thr Ala Thr  
1 5 10